PTO/SB/08A (07-05)

NOV 2 3 2005 Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE uction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

1449/PTO

Sheet

(Use as many sheets as necessary)

of\_

Complete if Known **Application Number** 10/707,173 Filing Date November 25, 2003 First Named Inventor Steven Glenn Keener Art Unit 1742 Wyszomierski, George P. Examiner Name Attorney Docket Number 02-1231(BOE0391)

	•		U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (f Incom)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
(gu		<sup>US-</sup> 3,363,846	Jan. 16, 1968	Eck	
(gus		<sup>US-</sup> 5,775,603	Jul. 7, 1998	Kohler	
Ou		<sup>US-</sup> 2004/177723	Sep. 16, 2004	Van Daam	
		US-		·	
		US-			
	<u> </u>	US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	
_		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>3</sup> (if known)	MM-DD-YYYY	·		T
Ju		EP 1321199	Jun. 25, 2003	The Boeing Company		
ju		EP 0919284	Jun. 2, 1999	Fraunhofer-Gesellschaft		L
						L
				•		┡
					·	L
	l		[	i i	1	1

Date Examine Considered Signature

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 'Senter Office that issued the document, by the two-letter code (MIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. "Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

NOV 2 3 2005

PTC/SB/08B (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE at of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Cubating	te for feller Fiftige		<u> </u>	Complete if Known			
Substitute for room first Pro-				Application Number 10/707,173			
INFO	ORMATION	I DIS	CLOSURE	Filing Date	November 25, 2003		
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Steven Glenn Keener		
		4		Art Unit	1742		
(Use as many sheets as necessary)				Examiner Name	Wyszomierski, George P.		
Sheet	1	of	1	Attorney Docket Number	02-1231(BOE0391)		

	NON PATENT LITERATURE DOCUMENTS	
Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	BOHN, R. et al; "Room temperature mechanical behavior of silicon doped TiA1 alloys with grain sizes in the nano- and submicron-range"; ACTA MATERIALIA ELSEVIER UK, Vol. 49, No. 2, January 22, 2001; pages 299-311	
	FANTA, G. et al; "Effect of ultrafine grained microstructures on the hot-workability of intermetallic/ceramic composites based on gamma - TIA1"; INTERMET; INTERMETALLICS JAN 2001 ELSEVIER SCIENCE LTD. Exeter, Engl., Vol. 9, No. 1, January 2001, pages 45-49	
	JAE HOON CHOI et al; "Consolidation behavior of nanocrystalline al-5AT.%TI alloys synthesized by cryogenic milling"; JOURNAL OF ALLOYS AND COMPOUNDS, ELSEVIER SEQUOIA, LAUSANNE, CH; vOL. 315, nO. 1/2, fEBRUARY 9, 2001; pages 178-186	
	Cite No.1	Cite No.1 Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.  BOHN, R. et al; "Room temperature mechanical behavior of silicon doped TiA1 alloys with grain sizes in the nano- and submicron-range"; ACTA MATERIALIA ELSEVIER UK, Vol. 49, No. 2, January 22, 2001; pages 299-311  FANTA, G. et al; "Effect of ultrafine grained microstructures on the hot-workability of intermetallic/ceramic composites based on gamma - TiA1*; INTERMET; INTERMETALLICS JAN 2001 ELSEVIER SCIENCE LTD. Exeter, Engl., Vol. 9, No. 1, January 2001, pages 45-49  JAE HOON CHOI et al; "Consolidation behavior of nanocrystalline al-5AT.%TI alloys synthesized by cryogenic milling"; JOURNAL OF ALLOYS AND COMPOUNDS, ELSEVIER SEQUOIA, LAUSANNE,

Examiner Signature Date Considered 4/14/06

EXAMINED Initial if ordered August of order or

\*EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form witgynext communication to applicants unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: